Title: INK-RESERVOIR VENTS AND VENTING METHODS

IN THE CLAIMS

- 1. (Currently amended) An ink reservoir comprising:
 - at least one compartment; and
 - first and second vents that communicatively couple the compartment to an atmosphere surrounding an exterior of the ink reservoir;
 - wherein the first vent is disposed in a cover of the ink reservoir and the second vent passes through a wall of the ink reservoir that is opposite the cover and is in addition to an interconnect port passing through the wall.
- 2. (Currently amended) The ink reservoir of claim 1, further comprising a capillary medium located within the compartment for containing ink and acting to prevent the ink from leaking through an outlet of the ink reservoir the interconnect port.
- 3. (Original) The ink reservoir of claim 2, wherein the capillary medium is of a hydrophilic material.
- 4. (Original) The ink reservoir of claim 3, wherein a fiber direction of the hydrophilic material is substantially perpendicular to the first and second vents.
- 5. (Original) The ink reservoir of claim 1, wherein the first and second vents are labyrinth vents.
- 6. (Canceled)
- 7. (Currently amended) The ink reservoir of claim-6_1, further comprising a third vent disposed in a wall of the ink reservoir that is opposite the cover, wherein the third vent communicatively couples the compartment to the atmosphere surrounding the exterior of the ink reservoir.

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- 8. (Canceled)
- 9. (Currently amended) An ink reservoir comprising:

at least one compartment; and

first and second labyrinth vents, the first and second labyrinth vents respectively comprising first and second vent holes passing through the ink reservoir and into the compartment and first and second elongated vent paths that respectively communicatively couple the first and second vent holes to an atmosphere surrounding an exterior of the ink reservoir;

wherein the first vent hole passes through a cover of the ink reservoir and the second vent hole passes through a wall of the ink reservoir that is opposite the cover; and

wherein the second elongated vent path is formed in an exterior surface of the wall.

- 10. (Original) The ink reservoir of claim 9, further comprising a capillary medium located within the compartment for containing ink and acting to prevent the ink from leaking through an outlet of the ink reservoir.
- 11. (Currently amended) The ink reservoir of claim 9, wherein the first elongated vent path comprises a first groove disposed in the cover closed by a first seal and second elongated vent paths—each comprises a second groove disposed in—an the exterior surface of the ink reservoir covered by a seal the wall.
- 12. (Currently amended) The ink reservoir of claim 11, wherein the <u>first</u> seal closes the first <u>vent hole at an exterior surface of the cover and the second seal closes the second vent holes at the exterior surface of the wall.</u>

13-14 (Canceled)

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15. (Currently amended) The ink reservoir of claim—14_9, further comprising a third labyrinth vent disposed in the cover of the ink reservoir, the third labyrinth vent comprising a third vent hole passing through the cover of the ink reservoir and into the compartment and a third elongated vent path that communicatively couples the third vent hole to the atmosphere surrounding the exterior of the ink reservoir.

16-18 (Canceled)

- 19. (Currently amended) An ink reservoir comprising:
 - means for directing at least two a first airflows substantially simultaneously into a compartment of the ink reservoir through a cover of the ink reservoir from an atmosphere surrounding an exterior of the ink reservoir when a pressure of the atmosphere is greater than a pressure in the compartment and substantially simultaneously from the compartment to the atmosphere through the cover when the pressure of the atmosphere is less than the pressure in the compartment; and
 - means for directing a second airflow into the compartment through a wall of the ink
 reservoir that is opposite the cover, substantially simultaneously with the first
 airflow, from the atmosphere when the pressure of the atmosphere is greater
 than the pressure in the compartment and from the compartment to the
 atmosphere through the wall, substantially simultaneously with the first
 airflow, when the pressure of the atmosphere is less than the pressure in the
 compartment, wherein the second airflow directing means is separate from an
 interconnect port passing through the wall.
- 20. (Currently amended) The ink reservoir of claim 19, wherein the <u>first</u> airflow directing means comprises a <u>first vent for a first airflow and a second vent for a second airflow</u> one or more first vents in the cover.

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- 21. (Currently amended) The ink reservoir of claim 20, wherein the <u>second</u> airflow directing means <u>further</u>-comprises a third second vent for a third airflow in the wall.
- 22. (Currently amended) An ink-deposition system comprising:

a print head; and

an ink reservoir fluidly coupled to the print head, the ink reservoir comprising:

at least one compartment; and

first and second vents that communicatively couple the compartment to an atmosphere surrounding an exterior of the ink reservoir; and

- a capillary medium located within the compartment for containing ink and acting to prevent the ink from leaking through orifices of the print head wherein the first vent is disposed in a cover of the ink reservoir and the second vent passes through a wall of the ink reservoir that is opposite the cover and is in addition to an interconnect port passing through the wall.
- 23. (Currently amended) The ink-deposition system of claim 22 <u>further comprises a capillary medium located within the compartment for containing ink and acting to prevent the ink from leaking through orifices of the print head, wherein the capillary medium is of a hydrophilic material.</u>
- 24. (Currently amended) The ink-deposition system of claim—22_23, wherein the first and second vents are disposed in a cover of the ink reservoir the capillary medium is of a hydrophilic material.
- 25. (Currently amended) The ink-deposition system of claim-24_22, further comprising a third vent disposed in a wall of the ink reservoir that is opposite the cover, wherein the third vent communicatively couples the compartment to the atmosphere surrounding the exterior of the ink reservoir.

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- 26. (Canceled)
- 27. (Original) The ink-deposition system of claim 22, wherein a flexible conduit fluidly couples the ink reservoir to the print head.
- 28. (Currently amended) A method for venting an ink reservoir, the method comprising: passing a first vent hole through a cover of the ink reservoir into a compartment of the ink reservoir;
 - forming a first elongated vent path in the cover between an atmosphere surrounding an exterior of the ink reservoir and the first vent hole for communicatively coupling the first vent hole to the atmosphere;
 - passing a second vent hole through a wall of the ink reservoir opposite the cover into the compartment; and
 - forming a second elongated vent path in the ink reservoir an exterior surface of the wall between the atmosphere and the second vent hole for communicatively coupling the second vent hole to the atmosphere.
- 29-30 (Canceled)
- 31. (Currently amended) The method of claim-30 28, further comprising:
 - passing a third vent hole through the cover into the compartment of the ink reservoir when the second vent hole is passed through the wall; and
 - forming a third elongated vent path in the cover between the atmosphere and the third vent hole for communicatively coupling the third vent hole to the atmosphere.
- 32. (Currently amended) A method for venting an ink reservoir, the method comprising:

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- directing first and second airflows substantially simultaneously into a compartment of the ink reservoir from an atmosphere surrounding an exterior of the ink reservoir when a pressure of the atmosphere is greater than a pressure in the compartment wherein the first airflow is directed through a cover of the ink reservoir and the second airflow is directed through a wall of the ink reservoir opposite the cover and not through an interconnect port in the wall; and
- directing the first and second airflows substantially simultaneously from the compartment to the atmosphere when the pressure of the atmosphere is less than the pressure in the compartment.
- 33. (Currently amended) The method of claim 32, wherein:
 - directing the first-air flow airflow comprises directing the first airflow through a first labyrinth vent disposed in-a the cover of the ink reservoir; and
 - directing the second air flow comprises directing the second airflow through a second labyrinth vent-disposed in the cover or directing the second airflow through a second labyrinth vent disposed in-a the wall of the ink reservoir-that is opposite the cover.
- 34. (Currently amended) The method of claim 32, further comprising:
 - directing a third airflow into the compartment from the atmosphere substantially simultaneously with the first and second airflows when a pressure of the atmosphere is greater than a pressure in the compartment; and
 - directing the third airflow from the compartment to the atmosphere substantially simultaneously with the first and second airflows when the pressure of the atmosphere is less than the pressure in the compartment;
 - wherein directing the first and second airflows comprises respectively directing the
 first and second airflows through first and second vents disposed in a cover of
 the ink reservoir; and

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wherein directing the third airflow comprises directing the third airflow through a third vent disposed in a wall of the ink reservoir that is opposite the cover.